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Electromagnetic measurements of the ionosphere at the ionospheric station of Rome

**DTIC
ELECTED
MAY 10 1994**

(Second interim report)

The project is a continuation of previous "EUROCAP PROGRAM" agreement with the European Research Office".

Continuous ionospheric vertical soundings (every hour, every day) have been performed at the ionospheric station of Rome during the period from November 93 to January 94.

The ionospheric station of Rome, one of most ancient in Europe, is equipped now with a couple of Digisonde Bibl type 128, using sounding frequency range 1-20Mhz and 10KW of power pulse.

Geographic coordinates: Lat 41.8 N Long. 12.5 E

Geomagnetic coordinates: Lat 42.1 N Long. 93.3 E

Time used: LT 15°E (UT + 1h)

Terminology and scaling method used conforms with that recommended in the URSI handbook of Ionogram Interpretation and Reduction, second ed. Nov. 1972 published by U.S. Department of Commerce, NOAA (editors W.R. Piggot and R. Rawer).

The hourly values of the standard ionospheric characteristics, coming from the scaled ionograms taken at the ionospheric station of Rome, concerning the period November 93 - January 94, have been digitized on diskette and mailed to Dr. F. Gorman of the U.S. Army. Moreover the 1993 yearbooks of the two Italian ionospheric stations, Rome and Gibilmanna (38.0 N, 14.0 E), plus diskettes have been sent to Dr. Gorman too.

The rough ionograms are kept at ING station and the copies will be available if necessary.

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DATA SOURCE: U.S. CENSUS BUREAU

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